Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL		EN	IGINE	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC B			
YEAR	ENGINE FAMIL	-Y SIZ	ES (L)		PROCEDURE	CLASS 2	DDI, TC(2), CAC, ECM, EGR, OC, PTOX	EMD			
2009	9NVXH0757A	AGA 12.3		Diesel	Diesel	HHDD	OC, PTOX				
PRIMARY ENGINE'S IDL EMISSIONS CONTROL		ADDITIONAL IDLE EMISSIONS CONTROL 5									
	S or 30g				N _i	Ά.					
ENGINE (13			ENGINE MOD	ELS / CODES (ra	ted power, in	hp)				
12.3		ESS: 0012WZC / GDT475 (475), GDT475 / GDT475 (475), 0012WZC / GDT430 (430), GDT430 (430), 0012WZC / GDT410 (410), GDT410 / GDT410 (410)									
12.3		30g: 0012WZB / GDT475 (475), 0012WZJ / GDT475 (475), 0012WZB / GDT430 (430), 0012WZJ / GDT430 (430), 0012WZJ / GDT430 (430), 0012WZB / GDT410 (410), 0012WZJ / GDT410 (410) on 12WZJ / GDT410 (410) on									
L≖liter hr 1 CNG/L	=horsepawer: kw=kiii NG=romoressed/lique	owatt; nr=nour; efied natural gas;	LPG=liquef	ed petroleum gas; E85≂85% e	thanol fuel; MF ≃mul		=bi fuel; DF=dual fuel; FF=flexible fuel;	15, 000,00,1 00,000,			
ECS=8 up catalysi TBi=throtti super chai control mo ESS=8 (ner 13 C6	HDD=light/medium/heimission control system; pPF=diesel particula e body fuel injection; ger; CAC=charge air duie; EM=engine motionine shutdown systems 1966 8(a\text{A}\text{B}(D); E	avy heavy-duty on; TWC/OC=throate filter; PTOX= SFI/MFI=sequen cooler; EGR / Edification; 2 (pre- m (per-13 CCR : xempt=exempte	diesel; UB=u ee-way/oxidiz =periodic trap tial/multi port (GR-C=exhau fix)=parallel; 1956.8(a)(6)(/ d per 13 CCF	rban bus; HDO=heavy duty Ott ing catalyst; NAC=NOx adsorp oxidizer; HO2s/O2S=heated/o fuel injection; DGI=direct gass ast gas recirculation / cooled EG (2) (suffix)=in series;	o; titon catalyst; SCR-tixygen sensor; HAF line injection; GCAI R; PAIR/AIR=pulse CCR 1956.8(a)(6)(f IG fuel systems; N/	J / SCR-N=sele/ S/AFS=heated/ RB=gaseous cal d/secondary air C); APS =intern A=not applicable	ctive catalytic reduction urea / ammonia; V air-fuel-ratio sensor (a.k.a., universal or linear or rburetor; IDI/DDI=indirect/direct diesel injectior injection; SPL=smoke puff limiter; ECM/PCM lat combustion auxiliary power system; ALT=a e (e.g., Otto engines and vehicles);	n; TC/SC=turbo/ l=engine/powertrain			

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.)

·	NMHC		NOx		NMHC+NOx		co		PM		нсно	
in g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
		0.14	*	*	*	*	15.5	15.5	0.01	0.01	*	*
STD	0.14	#	1.20	1.20	1.2	1.2	*	*	*		*	*
FEL CERT	0.01	0.000	1.05	0.94	1.1	0.9	0.04	0.01	0.001	0.007	*	*
NTE	0.21		1.80		1.8		19.4		0.02		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing. NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CD=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [OTTO engines] and the incorporated 40CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations. The Bureau of Automotive Repair will be notified by copy of this Executive Order. This Executive Order hereby supersedes Executive Order A-004-0334 dated December 24, 2008.

Executed at El Monte, California on this ______ day of August 2009.

EMD=engine manufacturer diagnostic system (13 CCR 1971), OBD=on-board diagnostic system (13 CCR 1971.1);

Annette Hebert, Chief

Mobile Source Operations Division